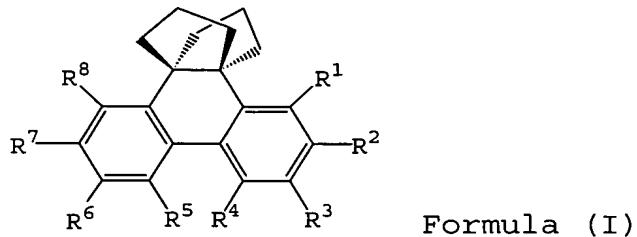


ABSTRACT OF THE DISCLOSURE

A phenanthrene compound represented by the formula (I):



in which, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are identical or different and may each be hydrogen, halogen, C₁₋₆ alkyl, C₁₋₆ alkoxy, or a conjugated group. The phenanthrene compound has a polycyclic structure and semiconductor properties including electron transfer, electroluminescence, and photoluminescence.